



INNOVATIVE METHODS FOR DEVELOPING FUNCTIONAL LITERACY IN TEACHING STUDENTS TO THINK INDEPENDENTLY

Tilyabov Maxsudjon Umurzokovich

Uzbekistan-Finnish Pedagogical Institute

E-mail: tilyabov_maq@mail.ru

Tel: (93) 703-50-88

<https://doi.org/10.5281/zenodo.14829824>

Abstract: In the modern education system, it has become necessary to teach students not only traditional knowledge but also the skills of independent thinking and active participation in social life. Today, an essential component of this process is the development of functional literacy. The ability of students to think independently plays a crucial role in expanding their worldview and enhancing their creative potential. Therefore, it is necessary to apply innovative approaches, methods, and strategies in developing functional literacy among students.

Keywords: Functional literacy, independent thinking, innovative methods, student engagement, critical thinking, pedagogical technologies, logical analysis, games, learning skills, preparation for social life.

Objective: Functional literacy not only refers to acquiring knowledge but also applying that knowledge in practice. This, in turn, requires the development of students' ability to think independently, analyze, and make decisions in social situations. Independent thinking helps students effectively utilize their knowledge, clearly and precisely express their opinions, and find new solutions to societal problems.

Innovative approaches and methods: Applying innovative methods in developing students' independent thinking skills contributes to improving the quality of education. Modern pedagogical technologies and methods provide opportunities to teach students high-level critical thinking. The following innovative methods can be considered[5].

Brainstorming method: This method helps activate young students, solve problems, and develop non-standard thinking. Encouraging students to resolve complex situations, generate new ideas, exchange thoughts, and apply a critical approach makes the learning process more effective.

"Know, learned, want to know" method: This method allows students to reinforce their knowledge and understanding, generate interesting questions about new information, and conduct independent research. It significantly aids in independent thinking and applying learned information.



Logical chain method: Constructing logical sequences when analyzing texts and understanding chemical processes helps students comprehend the logical order of each process. This method organizes thinking, aids in solving complex problems, and develops critical thinking.

Role-playing games and discussions: Using role-playing games and discussions as innovative methods allows students to understand and solve real-life problems. Through this approach, students learn teamwork, decision-making, and confidently expressing their opinions in discussions[2].

The importance of innovative methods in developing functional literacy: Applying innovative methods in developing functional literacy provides numerous benefits to students. Firstly, these methods activate students and increase their interest in learning. Secondly, they help students acquire skills that meet the demands of the modern world. Moreover, these approaches develop students' ability to address social issues, create innovative solutions, and make independent decisions.

Practical results of the research:

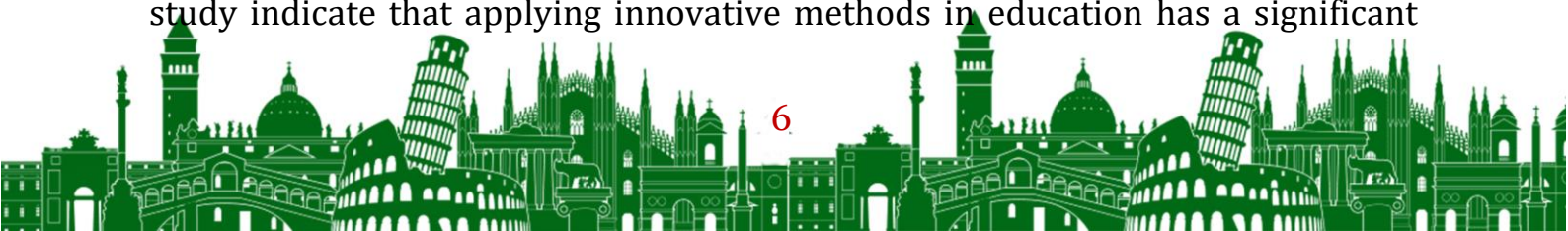
Effectiveness of innovative methods: The innovative methods used to teach students independent thinking, such as "Brainstorming", "Know, Learned, Want to Know" and "Logical Chain" activated students and helped develop their critical thinking skills. These methods enabled students to solve problems, generate new ideas, and engage in meaningful discussions[1].

Adaptation to modern educational requirements: The methods applied in developing functional literacy helped students acquire skills necessary to meet modern-day demands. This, in turn, enhanced their ability to make decisions in social and practical situations, find solutions to societal problems, and develop creative thinking.

Formation of independent thinking skills: Through innovative approaches, students demonstrated improved independent thinking and analytical skills. This not only contributed to their academic success but also aided their personal development, as they learned to apply their knowledge in practice and solve real-world problems.

Development of social skills: Methods such as role-playing games and discussions helped students understand and address social issues. Consequently, their ability to work in groups, make decisions, and actively participate in society was enhanced.

Significance of using innovative methods in education: The results of the study indicate that applying innovative methods in education has a significant



impact on students' overall development. These methods provide students with essential skills to solve contemporary social problems effectively[3].

Methodology:

Research methodology: This study employed innovative pedagogical methods to develop functional literacy and independent thinking skills among students. The main focus was on modern educational methods and their impact on students.

Experiments and methods: The study examined the application of innovative methods such as "Brainstorming", "Know, Learned, Want to Know", "Logical Chain", role-playing games, and discussions. These methods helped develop students' independent thinking, critical analysis, problem-solving, and decision-making skills.

Data collection and analysis: The study involved observing students' activities and gathering their feedback. Data was collected through discussions, group activities, and surveys to assess students' engagement and success in applying these methods.

Analytical approach: Special attention was given to analyzing how students perceived innovative methods and their impact on the learning process. The effectiveness of the methods was assessed based on students' cognitive development and critical thinking skills.

Results and recommendations: The study concluded that using innovative methods is effective in fostering independent thinking and functional literacy among students. These methods enable students to generate new ideas, solve problems, and make informed decisions in social contexts[6].

Conclusion:

Developing independent thinking and functional literacy is a key direction in modern education. Innovative approaches and methods enhance not only students' academic abilities but also their social and practical skills. Teaching students to think independently and critically contributes to their personal development, creative thinking, and successful adaptation to contemporary society. Therefore, integrating innovative methods into education significantly impacts students' overall development and prepares them for complex social challenges in the future.

References:

1. Shernazarov I. E., Iskandarov O.Y., Xasanova S.G'. Kimyo fanidan tabiiy savodxon-likni oshirishga doir topshiriqlar to'plami (Umumiy o'rta ta'lim maktablarini 14-15 yoshli o'quvchilari uchun)// "LESSON PRESS" MCHJ





nashriyoti. «Zuxra baraka biznes» MChj bosmaxonasida chop etildi. (o'quv qullanma) Toshkent 2021 (324-b)

2. Lobarkhan K., Shernazarov I., Maksudjon T., Dilrabo E., Nazokat S. Methodology of using international assessment programs in developing the scientific literacy of future teachers. TheSecond Pamir Transboundary Conference for Sustainable Societies -2023/Pamir 2023. Spast Abstracts, 2(02). Dec 12, 2023

3. Shernazarov I.E. O'quvchilarda funksional savodxonlik kompetensiyalarini shakllantirish//Kasb-hunar ta'limi. Ilmiy-uslubiy, amaliy, ma'rifiy jurnal 2023-yil 8-son

4. Shernazarov I. E., Tilyabov M. U. Preparation for International Assessment Research by Forming Types of Functional Literacy in Future Chemistry Teachers// Web of Technology. Volume 1, Issue 7, October 2023

5. M.U.Tilyabov, I.E.Shernazarov. Preparation for International Assessment Research by Forming Types of Functional Literacy in Future Chemistry Teachers. Web of Technology: Multidimensional Research Journal. Volumel-1, Issue 7, October, 2023. 49-53 .

6. I.E.Shernazarov, M.U.Tilyabov. Bo'lajak kimyo o'qituvchilarning funksional savodxonligini rivojlantirish metodikasini takomillashtirish. Mirzo Ulug'bek nomidagi O'zbekiston Milliy universiteti ilmiy jurnali 2024, [1/9] Issn 2181-7324 184-187 bet.

